```
semaphore wait, mutex1, mutex2;
mutex1 = 1; mutex2 = 1; wait = 1;
int countu1, countu2, countd1, countd2; countu1 = 0; countu2 = 0; countd1 = 0; countd2 = 0;
process P东(){
                                             process P西(){
    P(S1);
                                                 P(S2);
        P(mutex1);
                                                     P(mutex2);
            countu1++;
                                                          countu2++;
            if(countu1 == 1)
                                                          if(countu2 == 1)
                P(wait);
                                                              P(wait):
        V(mutex1);
                                                     V(mutex2);
                                                      过独木桥:
        过独木桥:
    V(S2);
                                                 V(S1);
    P(mutex1);
                                                 P(mutex2);
        countu1--; countd1++;
                                                      countu2--; countd2++;
       if((countu1 == 0) && (countd1 == 3)
                                                     if((countu2 == 0) \&\& (countd2 == 3)
            countd1 = 0; V(wait);
                                                          countd2 = 0; V(wait);
    V(mutex1);
                                                  V(mutex2);
```